

Bathroom cleaner Purenat
SECTION 1 - IDENTIFICATION

Product identifier:	Bathroom cleaner Purenat
Recommened use:	Efficient against limescale
Chemical name:	Mixture
Chemical group:	Mixture
Supplier identifier:	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc, G0L 2G0 (418) 970-0889
Manufacturer identifier:	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc, G0L 2G0 (418) 970-0889
Emergency phone:	418-970-0889, Monday to Friday, 9h00 to 17h00

SECTION 2 - HAZARD IDENTIFICATION

Classification	Skin irritation - category 2 Eyes irritation - category 2B	
Signal Word	WARNING	
Hazard statement	H315	Causes skin irritation.
	H320	Causes eye irritation.
Precautionary statement - Prevention	P264	Wash hands thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face
Precautionry statement - Response	P302+P352	IF ON SKIN: Wash with plenty of soap and
	P321	Specific treatment : as symptoms occurs.
	P332+P313	If skin irritation occurs: Get medical
	P362+P364	Take off contaminated clothing and wash it before
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313	If eye irritation persists: Get medical
Precautionry statement - Storage	#REF!	
Precautionry statement - Elimination	P501	Dispose of contents/container according to municipal, provincial and federal regulation.


SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENT

Hazardous Product	No. CAS	% (weight)
Sodium salt of ethoxylated (C10-C16) alkyl sulfate	68585-34-2	1 - 5

SECTION 4 - FIRST AID MESURE
Inhalation:

IF INHALED: remover person to fresh air and keep comfortable for breathing. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

Skin contact:

IF ON SKIN: If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing/ jewellery and wash it before reuse. Apply moisturizing cream in case of dry skin.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion:

NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two (2) glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.

Note to physician

No specific treatment. Treat according to symptoms. Contact a poison center immediately if large quantity has be ingested.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media:	In case of fire: Use water, foam, CO2, dry chemical to extinguish.
Unsuitable extinguishing media:	Stream of water directed into the product will generate large amounts of foam.
Hazardous combustion products:	Carbon oxides, nitrogen oxides, sulfur oxides.
Protective equipment:	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.
Precaution:	Retain water run-off. Move containers away from fire area if without risk. Use water spray to keep containers cool. In a fire or if heated, a pressure increase will occur and the container may burst with the risk of a subsequent explosion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Protective equipment:	Wear plastic or rubber gloves if large quantities of bulk are handled. (See Section 8) wear respiratory equipment if ventilation is inadequate.
Containment and clean up:	Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material (sand, earth, vermiculite, diatomaceous earth) for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.
Environnement precaution:	Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal provincial and federal regulation.

SECTION 7 - HANDLING AND STORAGE

Precaution for safe handling:	Containers must be identified correctly. Handle in a well ventilated area. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse. Do not ingest. Avoid breathing vapours or mist. Wear appropriate respiratory equipment if ventilation is inadequate. Do not enter storage or enclosed areas if ventilation is inadequate.
Condition for safe storage:	Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.
Incompatible materials:	Strong acids, oxidants. The product does not polymerise.
Incompatible condition:	Sources of ignition. Direct sunlight.

SECTION 8 - EXPOSURE CONTROLS / PERSONNAL PROTECTION

Exposure limits:				
Ingredients	OSHA PEL			
	TWA	STEL	TWA	STEL
Sodium salt of ethoxylated (C10-C16) alkyl sulfate	No data	No data	No data	No data
Engineering controls: Local ventilation system is recommended to maintain concentrations of contaminants below exposure limits.				
Protection of airways: Not required if ventilation is adequate. Wear a NIOSH approved respiratory equipment if concentrations are superior to recommended maximal limits.				
Protective equipment and clothing: Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.				
General hygiene recommendations : Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.				

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent liquid
Odour :	Characteristic of the product
Odour threshold:	Not available
pH (sol. 10%) :	6.00 - 8.00
Melting point:	Not applicable
Initial boiling point:	100°C

Flash point:	Not applicable
Evaporation rate (butyl acetate = 1):	> 1.0
Flammability:	Not applicable
LIL:	Not applicable
UIL:	Not applicable
Vapour pressure:	Not available
Vapour density (air=1):	Not available
Relative density:	1.002 - 1.012 kg/L
Solubility (water):	Soluble
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Volatiles:	90 - 99 %
Viscosity:	< 5 cPs (Brookfield RV #1, 10 rpm at 25°C)

SECTION 10 - STABILITY AND REACTIVITY

Stability and reactivity :	Stable under recommended conditions and expected usage.
Polymerisation:	No.
Conditions to avoid :	Direct Sunlight. Extremely high or low temperature Contact with incompatible materials.
Incompatible materials :	Strong oxidants, acids.
Hazardous decomposition products :	Carbon oxides, nitrogen oxides, sulfur oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data:				
Hazardous ingredient	No. CAS	% (weight)	LD ₅₀ (route, species)	LC ₅₀ (species)
Sodium salt of ethoxylated (C10-C16) alkyl sulfate	68585-34-2	1 - 5	>2000 mg/kg (oral, rat) >2000 mg/kg (dermal, rabbit)	No data
Short term exposure (acute) :				
Inhalation:	No adverse reactions reported.			
Skin:	Slight skin irritant. Redness, itching.			
Eyes:	Causes serious eyes irritation. Pain, redness, tearing.			
Ingestion:	Expected to be a low ingestion hazard.			
Long term exposure (chronic) :				
Inhalation:	No data available			
Skin:	Drying of the skin if excessive exposure.			
Eyes:	No data available			
Ingestion:	No data available			
Carcinogenicity :	No data available			
Teratogenicity:	No data available			
Mutagenicity:	No data available			
Target organ:	No data available			
Conditions aggravated by exposure :	No data available			

SECTION 12 - ECOLOGICAL INFORMATION

Hazardous ingredient	No. CAS	% (weight)	Value	Species
Sodium salt of ethoxylated (C10-C16) alkyl sulfate	68585-34-2	1 - 5	2.33 - 4.81 mg/L (48h)	Water flea (ceriodaphia duba)
Persistence and degradability:	Not available			
Bioaccumulation potential:	Not available			
Mobility in soil:	Not available			
Other adverse effects:	Not available			
Other information:	Avoid release to the environnement.			

SECTION 13 - DISPOSAL CONSIDERATION

Safe handling for disposal:	Store materials for elimination and contaminated packaging as indicated in Section 7 Handling and Storage.
Methods of disposal:	Dispose contents/containers according to all municipal, provincial and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number	Proper shipping name	Class	Packing group	Placard
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

Not regulated for transport	
Special Precaution :	None known
Environnement Danger :	Do not discharge into environnement.

SECTION 15 - REGULATION INFORMATION

Canadian Environmental Protection Act (CEPA):	Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.
Others :	Components of this product are listed on the TSCA or are exempt.

SECTION 16 - OTHER INFORMATION

Prepared by:	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc, G0L 2G0
Telephone :	(418) 970-0889
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Version:	TU-04 -- 1.5
Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

All information indicated in the present document are based on data supplied by recognized technical sources. While the information is believed to be accurate, the manufacturer makes no representations as to its accuracy or sufficiency. Users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.